

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. (original) A radome or feedome comprising at least one rigid panel including composite material having polyester-polyarylate fibers in a rigid resin matrix material.
2. (original) The radome or feedome of claim 1 in which the at least one rigid panel includes a first composite material skin having polyester-polyarylate fibers in a rigid resin matrix material.
3. (original) The radome or feedome of claim 2 in which the at least one rigid panel includes second, opposing composite material skins having polyester-polyarylate fibers in a rigid resin matrix material and a core between the first and second composite material skins.
4. (original) The radome or feedome of claim 3 in which the core is a low density material.
5. (original) The radome or feedome of claim 1 in which the rigid resin matrix material is epoxy.
6. (original) The radome or feedome of claim 1 in which the rigid resin matrix material is polyester.

7. (original) The radome or feedome of claim 1 in which the rigid resin matrix material is polybutadiene.

8. (original) The radome or feedome of claim 1 in which the rigid resin matrix material is cyanate ester.

9. (original) The radome or feedome of claim 1 in which the rigid resin matrix material is vinyl ester.

10. (original) The radome or feedome of claim 1 in which the rigid resin matrix material is a blend of at least two of: epoxy, polyester, polybutadiene, cyanate ester, and vinyl ester.

11. (original) The radome or feedome of claim 1 in which the polyester-polyarylate fibers are between 100 denier and 5000 denier.

12. (original) A radome or feedome comprising at least one rigid panel including composite material skins with polyester-polyarylate fibers in a rigid resin matrix material and a core therebetween.

13. (original) A rigid radome or feedome with reduced radio frequency loss comprising:

a first skin including polyester-polyarylate fibers in a rigid resin matrix material;
a second skin including polyester-polyarylate fibers in a rigid resin matrix material; and
a core disposed between the first skin and the second skins.

14. (original) The radome or feedome of claim 13 wherein the core is a low density material.

15. (original) The radome or feedome of claim 13 wherein the rigid resin matrix material is epoxy.

16. (original) The radome or feedome of claim 13 wherein the rigid resin matrix material is polyester.

17. (original) The radome or feedome of claim 13 wherein the rigid resin matrix material is polybutadiene.

18. (original) The radome or feedome of claim 13 wherein the rigid resin matrix material is cyanate ester.

19. (original) The radome or feedome of claim 13 in which the rigid resin matrix material is vinyl ester.

20. (original) The radome or feedome of claim 13 in which the rigid resin matrix material is a blend of at least two of: epoxy, polyester, polybutadiene, cyanate ester, and vinyl ester.

21. (original) The radome or feedome of claim 13 in which the polyester-polyarylate fibers are between 100 denier and 5000 denier.

22. (original) A method of producing a radome or feedome, the method comprising forming at least one rigid panel including composite material having polyester-polyarylate fibers in a rigid resin matrix.

23. (original) The method of claim 22 wherein the at least one rigid panel includes a composite material skin having polyester-polyarylate fibers in a rigid resin matrix material.

24. (original) A method of producing a radome or feedome, the method comprising:
forming a first skin comprised of polyester-polyarylate fibers in a rigid resin matrix;
forming a second skin comprised of polyester-polyarylate fibers in a rigid resin matrix;
disposing a core between the first and the second skins; and
bonding the skins to the core.